APPLICABLE CODES AND STANDARDS:
2012 INTERNATIONAL BUILDING CODE
ACI 318-05
A.I.S.C. LOAD AND RESISTANCE FACTOR DESIGN SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS (LRFD) MARCH 9, 2005
A.W.S. D1.1

DESIGN LIVE LOADS	PSF
EXIT FACILITIES	100
PUBLIC ROOMS	100
PARTITIONS - (LATERAL LOAD)	5
LATERAL IMPACT LOAD - 4000 LB VEHICLE TRAVELING @ 30 MPH	

ROOF LIVE LOAD 20 PSF
ROOF SNOW LOAD (GROUND SNOW Pg=25 PSF) - 20 PSF + DRIFT

WIND LOADS
BASIC WIND SPEED 90 MPH
EXPOSURE CLASSIFICATION B
IMPORTANCE FACTOR 1.15

SEISMIC LOADS
SEISMIC DESIGN CATEGORY - A
IMPORTANCE FACTOR 1.25
SPECTRAL RESPONSE COEFFICIENT SDS = 0.132
SPECTRAL RESPONSE COEFFICIENT SD1 = 0.042
SITE CLASSIFICATION - D

MAXIMUM ALLOWABLE SOIL BEARING CAPACITY 1500 PSF

MATERIAL DATA:

CONCRETE & REINFORCING

CONCRETE STRENGTH (f'c @ 28 DAYS)	
FOOTINGS, GRADEBEAMS	3000 PSI
CONCRETE NOT OTHERWISE SPECIFIED	3000 PSI
BOLLARD FOOTING	3000 PSI
GRADE SUPPORTED SLABS	4000 PSI
CEMENT TYPE	PORTLAND TYPE I
AGGREGATES	REGULAR WT, HARDROCK TYPE - ASTM C33
REINFORCING STEEL	ASTM A615, GRADE 60
WELDED WIRE FABRIC	ASTM A185
PREFORMED EXPN. JT. (1/2 IN)	ASTM D1751

STEEL

STRUCTURAL STEEL (ALL OTHER SHAPES)	ASTM A36
STRUCTURAL SQUARE TUBING	ASTM A500, GRADE B (Fy = 46 KSI)
ANCHOR RODS	ASTM F1554, GRADE 36,
BOLTED CONNECTIONS	ASTM A325N
WELDED CONNECTIONS	E70XX ELECTRODES
METAL ROOF DECK	ASTM A611
LIGHT GAGE STEEL STUDS/JOISTS	ASTM A570
12 TO 16 GAGE (PAINTED)	ASTM A570 GRADE D (Fy=50 KSI)
18+ GAGE (PAINTED)	ASTM A611 GRADE C (Fy=33 KSI)

STRUCTURAL NOTES:

GENERAL:

ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE APPLICABLE BUILDING CODE.

THE STRUCTURE ADDITION HAS BEEN DESIGNED TO RESIST DESIGN LOADS ONLY AS A COMPLETED STRUCTURE.
APPLICATION OF ANY LOADS TO THE PARTIALLY COMPLETED STRUCTURE SHALL BE CONSIDERED BY THE CONTRACTOR AND SO INCLUDED IN THE DESIGN OF SHORING, BRACING, FORMWORK, AND ANY OTHER SUPPORTING ELEMENTS PROVIDED FOR CONSTRUCTION OF THE STRUCTURE.

WHERE CONSTRUCTION MATERIALS OR EQUIPMENT ARE TEMPORARILY STORED ON ROOF, THEY SHALL BE DISTRIBUTED SO THAT THE DESIGN LIVE LOAD IS NOT EXCEEDED.

STEEL LATERAL LOAD RESISTING SYSTEM: ALL LATERAL LOAD RESISTANCE AND STABILITY IN THE COMPLETED STRUCTURE IS PROVIDED BY:
N-S DIRECTION: CONNECTION TO EXISTING STRUCTURE
E-W DIRECTION: CONNECTION TO EXISTING STRUCTURE
ROOF DIAPHRAGM: METAL ROOF DECK

STEEL STABILITY: STRUCTURAL STEEL FRAMING INDICATED IN THESE PLANS REQUIRES INTERACTION WITH NON-STRUCTURAL STEEL ELEMENTS FOR STRENGTH AND/OR STABILITY. SEE PLANS FOR SPECIFIC LOCATIONS OF THESE NON-STRUCTURAL STEEL ELEMENTS WHICH ARE LISTED BELOW:

DETAILS ON THE DRAWINGS INDICATED AS "TYPICAL" APPLY IN ALL AREAS WHERE CONDITIONS SIMILAR TO THE DETAIL OCCUR.

THE STRUCTURAL DRAWINGS ARE NOT INTENDED FOR USE AS SHOP ERECTION DRAWINGS. REPRODUCTION OF THESE DRAWINGS IN LIEU OF PREPARATION OF SHOP ERECTION DRAWINGS SIGNIFIES THE USERS' ACCEPTANCE THAT ALL INFORMATION SHOWN IS CORRECT AND APPROPRIATE FOR SHOP DRAWINGS AND THAT THE USER WILL BE FULLY RESPONSIBLE FOR EXPENSES THAT MAY OCCUR FROM SAID ACCEPTANCE.

UNLESS SPECIFICALLY NOTED, THERE ARE NO PROVISIONS MADE FOR FUTURE FLOORS, ROOFS, OR OTHER LOADS.

COORDINATION / VERIFICATION:

CHECK AND VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH ANY PHASE OF THE WORK.

CROSS REFERENCE STRUCTURAL DRAWINGS WITH MECHANICAL AND ELECTRICAL DRAWINGS, AND WITH ACTUAL EQUIPMENT SUPPLIED TO THE PROJECT, FOR THE LOCATION AND SIZE OF ALL SLAB OPENINGS, SLEEVES, INSERTS, FLOOR DEPRESSIONS, BLOCK-OUTS, CURBS, ANCHORS, BOLTS, ETC. REQUIRED FOR INSTALLATION.

PROVIDE ADEQUATE STRUCTURAL FRAMING AS APPROVED BY THE ENGINEER FOR ALL REQUIRED MECHANICAL OPENINGS THROUGH SLABS, WALLS, FLOOR DECK, ETC., AND SUPPORT OF ALL MECHANICAL EQUIPMENT. OPENINGS SHALL NOT BE PERMITTED THROUGH BEAMS UNLESS SPECIFICALLY DETAILED BY THE ENGINEER.

REFER TO ARCHITECTURAL DRAWINGS FOR ALL SURFACE FINISHES AND DIMENSIONS.

CONCRETE / REINFORCING:

CONCRETE BATCH DESIGN(S) SHALL BE PROPORTIONED AND PRODUCED IN ACCORDANCE WITH A.C.I. 318, IN PARTICULAR CHAPTER 5, AND A.C.I. 301. MIX AND DELIVER IN ACCORDANCE WITH ASTM C94.

SLUMP REQUIREMENTS:	
FOUNDATIONS	MIN. 1 IN. / MAX. 3 IN.
OTHER CONCRETE	MIN. 1 IN. / MAX. 4 IN.
AIR ENTRAINMENT	CONCRETE EXPOSED TO WEATHER _ 5% MIN.
ADMIXTURES	SUBMIT AS REQUIRED FOR APPROVAL
FLY ASH	MAX. 20% OF CEMENT CONTENT

CONSTRUCTION JOINTS MUST HAVE PRIOR REVIEW BY THE ENGINEER. ALL CONTINUOUS REINFORCING SHALL BE CARRIED THROUGH THE JOINT.

LOCATIONS:	
FND FOOTINGS	MIDWAY BETWEEN COLUMNS

CONCRETE TO CONCRETE COLD JOINTS - PROVIDE 1/4" INTENTIONALLY ROUGHENED SURFACE AT ALL HORIZONTAL JOINTS.

CURING: CONCRETE SHALL BE MAINTAINED IN A MOIST CONDITION FOR A MINIMUM OF SEVEN DAYS AFTER ITS PLACEMENT. IF FORMWORK IS REMOVED PRIOR TO SEVEN DAYS, APPLY MOIST CURING TO NEWLY EXPOSED SURFACES. APPROVED CURING COMPOUNDS MAY BE USED IN LIEU OF MOIST CURING.

REINFORCING BAR WELDING: ABSOLUTELY NO WELDING OF REINFORCING BARS OR TORCHING TO BEND REINFORCING BARS SHALL BE ALLOWED WITHOUT THE SPECIFIC APPROVAL OF THE ENGINEER.

MINIMUM CONCRETE CLEAR COVER:
PROVIDE THE FOLLOWING MINIMUM CONCRETE COVER OVER REINFORCING (FACE OF CONCRETE TO EDGE OF BAR) UNLESS DETAILED OTHERWISE ON DRAWINGS:
CONCRETE CAST AGAINST AND
PERMANENTLY EXPOSED TO EARTH 3"
CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND
SLABS, WALLS, JOISTS #11 BAR AND SMALLER 3/4"

BAR SUPPORT ACCESSORIES SHALL BE PROVIDED IN ACCORDANCE WITH THE LATEST A.C.I. MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES
SLAB REINFORCING ON BAR BOLSTERS @ 4 FT. O.C. MAX.
WITH SAND PLATES AS REQUIRED

NO ROCKS, CLAY TILE, OR CLAY BRICK SHALL BE USED TO SUPPORT REINFORCING.

NON-METALLIC, SHRINKAGE-RESISTANT GROUT
PRE-MIXED, NON-METALLIC, NON-CORROSIVE, NON-STAINING
PRODUCT CONTAINING SILICA SANDS, PORTLAND CEMENT,
SHRINKAGE-COMPENSATING AGENTS, PLASTICIZING AND WATER-REDUCING AGENTS (ASTM C-1107).
MINIMUM COMPRESSIVE STRENGTH @ 48 HOURS 2400 PSI
MINIMUM COMPRESSIVE STRENGTH @ 28 DAYS 7000 PSI

REINFORCING SHOP DRAWINGS: REINFORCING SUPPLIER SHALL PROVIDE COMPLETE PLACEMENT AND FABRICATION DRAWINGS FOR ALL REINFORCING INCLUDING THE LOCATION AND SIZE OF ALL ACCESSORIES AND SUPPORTS.

FOUNDATIONS:

FOOTINGS SHALL BE PLACED ON NEAT, CLEAN AND DRY EXCAVATIONS. EXTREME CARE SHALL BE TAKEN WHEN EXCAVATING NEAR THE BEARING SURFACE. FOOT TRAFFIC SHALL BE KEPT TO A MINIMUM NECESSARY TO PLACE THE FOOTING REINFORCEMENT AND CONCRETE.

THE CONTRACTOR SHALL PROVIDE FOR ADEQUATE DRAINAGE OF SURFACE WATER AWAY FROM THE STRUCTURE AND EXCAVATED AREAS DURING CONSTRUCTION. THIS INCLUDES NECESSARY PUMPING, TRENCHING, BACKFILL AND/OR DIKE CONSTRUCTION.

GRADE SUPPORTED SLABS:

REINFORCED CONCRETE SLAB ON GRADE:
SLAB THICKNESS: 5 IN.

REINFORCING:
#4 @ 18" O.C. EACH WAY PLACED THE REQ'D CLEAR DISTANCE FROM TOP OF SLAB OR
6x6-W2.9xW2.9 W.W.F. PLACED THE REQ'D CLEAR DISTANCE FROM TOP OF SLAB

VAPOR BARRIER:
TEN (10) MIL POLYETHYLENE, LAP AND TAPE ALL JOINTS AND HOLES.

GRANULAR SUBBASE UNDER SLAB-ON-GRADE:
MINIMUM THICKNESS: 6 IN.
COMPACTION 95% (± 2%)
GRADATION REQUIREMENTS:
100% PASSING THE 3/4" SIEVE
LESS THAN 15% PASSING THE 100 SIEVE
LESS THAN 2% PASSING THE 200 SIEVE

SELECT FILL, WHERE REQUIRED TO ACHIEVE FINAL GRADE;
CLEAN, INORGANIC, LOW-PLASTICITY SILT OR LEAN CLAY WITH THE FOLLOWING PROPERTIES:
MAXIMUM LIQUID LIMIT (LL) 40
PLASTICITY INDEX (PI) RANGE 5 TO 18
MOISTURE CONTENT (% OF OPTIMUM) +3%, -2%
MAXIMUM LOOSE LIFT 8"
COMPACTION 95% (± 2%)

EXISTING SUBGRADE:
HEAVILY ROOT INFESTED TOPSOIL, PAVING, AND DEBRIS SHOULD BE STRIPPED AND DISCARDED. REMAINING EARTH SHALL BE SCARIFIED TO A DEPTH OF 12" AND RECOMPACTED TO AT LEAST 95% STANDARD PROCTOR DENSITY

CRACK CONTROL JOINTS (WHETHER CONSTRUCTION JOINTS OR SAWED JOINTS) IN SLABS ON GRADE SHALL OCCUR AS SHOWN AND ACROSS ALL DOOR OPENINGS. LOCATE JOINTS AT RE-ENTRANT CORNERS OF SLABS. MAXIMUM SPACING OF CONTROL JOINTS:10 FEET

CURING: CONCRETE SHALL BE MAINTAINED IN A MOIST CONDITION FOR A MINIMUM OF SEVEN DAYS AFTER ITS PLACEMENT. APPROVED CURING COMPOUNDS MAY BE USED IN LIEU OF MOIST CURING. CURING COMPOUNDS SHALL BE NON-RESIDUAL TYPE AND COMPATIBLE WITH SPECIFIED SEALER

SEAL ALL EXPOSED CONSTRUCTION/CRACK CONTROL JOINTS AND EXPANSION JOINTS WITH POLYURETHANE TYPE SEALANT

STRUCTURAL STEEL:

BEARING CONNECTIONS: UNLESS OTHERWISE NOTED, ALL BEAM CONNECTIONS SHALL BE SIMPLE FRAMED SHEAR BEARING CONNECTIONS IN ACCORDANCE WITH THE AISC "SPECIFICATIONS FOR STRUCTURAL JOINTS USING A.S.T.M. A325 OR A490 BOLTS."

DESIGN OF CONNECTIONS: BEAM CONNECTIONS SHALL BE AS DETAILED ON THE PLANS. ALTERNATIVE CONNECTIONS, DESIGNED BY A LICENSED ENGINEER FOR THE FABRICATOR, MAY BE UTILIZED PROVIDED THE ALTERNATIVE CONNECTION PROVIDES THE SAME LOAD CARRYING CAPACITY OF THE ORIGINAL DESIGN.

SPLICES: STEEL FABRICATOR SHALL VERIFY WITH ENGINEER ALL BEAM SPLICES OTHER THAN THOSE SHOWN ON THE PLANS. ANY FULL PENETRATION SHOP SPLICES APPROVED BY ENGINEER SHALL BE INSPECTED BY RADIOGRAPHIC METHODS BY A TESTING LABORATORY APPROVED BY THE ENGINEER AND PAID FOR BY THE FABRICATOR.

STEEL PROTECTION: ALL STRUCTURAL STEEL SHALL BE CLEANED PER SSPC SP-2 HAND TOOL CLEANING OR SP-3 POWER TOOL CLEANING AND SHOP PAINTED WITH ONE COAT OF THE FABRICATOR'S STANDARD PRIMER (PAINT TYPE SSPC-PAINT 13 OR 25). TOUCH UP SCARRED AREAS WITH THE SAME PAINT AFTER ERECTION.

STEEL PROTECTION: WHERE STEEL IS INDICATED AS GALVANIZED, PROVIDE HOT-DIPPED GALVANIZED SURFACE PER ASTM A525, CLASS G60. WHERE WELDING OR OTHER CONSTRUCTION OPERATIONS DAMAGE GALVANIZING, PROVIDE ZINC CHROMATE-TYPE TOUCH UP PAINT TO DAMAGED AREA.

WELDING: ALL WELDING SHALL BE PERFORMED BY QUALIFIED WELDERS PER AWS STANDARD QUALIFICATION PROCEDURES.

METAL DECKING

ROOF DECKING TYPE & SIZE: 1-1/2" - 20 GAGE TYPE B (WIDE RIB) ROOF DECK

DECK GOVERNING CRITERIA: THE DESIGN, FABRICATION, AND ERECTION OF METAL DECKING SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE SDI SPECIFICATIONS AND THE SDI DIAPHRAGM DESIGN MANUAL.

DECK ENDS: MAY BE BUTTED OR LAPPED OVER SUPPORTS. LAPS SHALL BE A MINIMUM OF 3".

DECK SPAN: DECKING SHALL BE PLACED TO PROVIDE A MINIMUM TWO-SPAN CONDITION.

ROOF DECK CONNECTIONS: ROOF DECKING SHALL BE CONNECTED TO THE SUPPORTING STRUCTURAL ELEMENTS WITH #12 SELF-TAPPING SCREWS SPACED AT 12" O.C. (36/4 PATTERN), SIDELAPS CONNECTIONS SHALL BE MADE WITH #10 SELF-TAPPING SCREWS AND BE SPACED SUCH THAT 2 FASTENERS ARE PROVIDED WITHIN EVERY DECK SPAN.

DECK PROTECTION: PAINTED DECKING SHALL BE COVERED WITH A WATERPROOF COVERING DURING SHIPPING AND SHALL BE STORED OFF OF THE GROUND AND COVERED WITH A WATERPROOF COVERING WHILE ON SITE.

ANCHORAGE

POST-INSTALLED ADHESIVE ANCHORS: SEE DETAILS
INSTALLATION TO MEET MANUFACTURER'S RECOMMENDATIONS (UNLESS NOTED OTHERWISE)
MIN. EMBEDMENTS, EDGE DISTANCES, SPACING, PROCEDURES, AND CURING TIME PRIOR TO LOADING.
POST-INSTALLED ANCHORS SHALL BE LOCATED PER THE DETAILS.

SPECIAL INSPECTIONS (IBC 2006)

SPECIAL INSPECTIONS SHALL BE PROVIDED FOR THE WORK IN ACCORDANCE WITH IBC CHAPTER 17. CONTRACTOR SHALL NOTIFY AND ACCOMMODATE THE APPLICABLE INSPECTOR DURING APPROPRIATE PHASES OF THE WORK AS REQUIRED FOR EACH TYPE OF INSPECTION.

STEEL CONSTRUCTION

1. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS:
   A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS. **- PERIODIC**
   B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED. **- PERIODIC**
2. INSPECTION OF HIGH-STRENGTH BOLTING:
   A. BEARING-TYPE CONNECTIONS. **- PERIODIC**
3. MATERIAL VERIFICATION OF STRUCTURAL STEEL:
   A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.
   B. MANUFACTURERS' CERTIFIED MILL REPORTS.
4. MATERIAL VERIFICATION OF WELD FILLER MATERIALS:
   A. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS.
   B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.
1. INSPECTION OF WELDING:
   A. STRUCTURAL STEEL
      A.A. SINGLE-PASS FILLET WELDS ≤ 5/16" **- PERIODIC**

CONCRETE CONSTRUCTION

6. INSPECTION OF REINFORCING STEEL, AND PLACEMENT. **- PERIODIC**
7. VERIFYING USE OF REQUIRED DESIGN MIX. **- PERIODIC**
8. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE. **- CONTINUOUS**
9. INSPECTION OF CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES. **- CONTINUOUS**
10. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES. **- PERIODIC**

INSPECTION OF SOILS

1. VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY. **- PERIODIC**
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL. **- PERIODIC**
3. PERFORM CLASSIFICIATION AND TESTING OF CONTROLLED FILL MATERIALS. **- PERIODIC**
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL. **- CONTINUOUS**
5. PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY. **- PERIODIC**

1 STRUCTURAL GENERAL NOTES
SCALE: NONE

Revisions:	Date

2013.05.29 16:00:38-05'00'

JEFFREY A. EHLER E-7289 STATE OF NEBRASKA PROFESSIONAL STRUCTURAL ENGINEER
5-29-13

ARCHITECT/ENGINEERS:

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InfraStructure, LLC
ENGINEERING CONSULTING GROUP

Drawing Title: GENERAL NOTES

CONTRACT DOCUMENTS (CD-3) FINAL SUBMITTAL (100%)

Project Title: CORRECT MAIN ENTRANCE HVAC
Location: VAMC Omaha Nebraska
Date: MAY 10, 2013 | Checked: CLH | Drawn:

Project Number: 636-12-823
Building Number: ONE
Drawing Number: S1.0
Dwg. 19 of 36

Office of Construction and Facilities Management
Department of Veterans Affairs

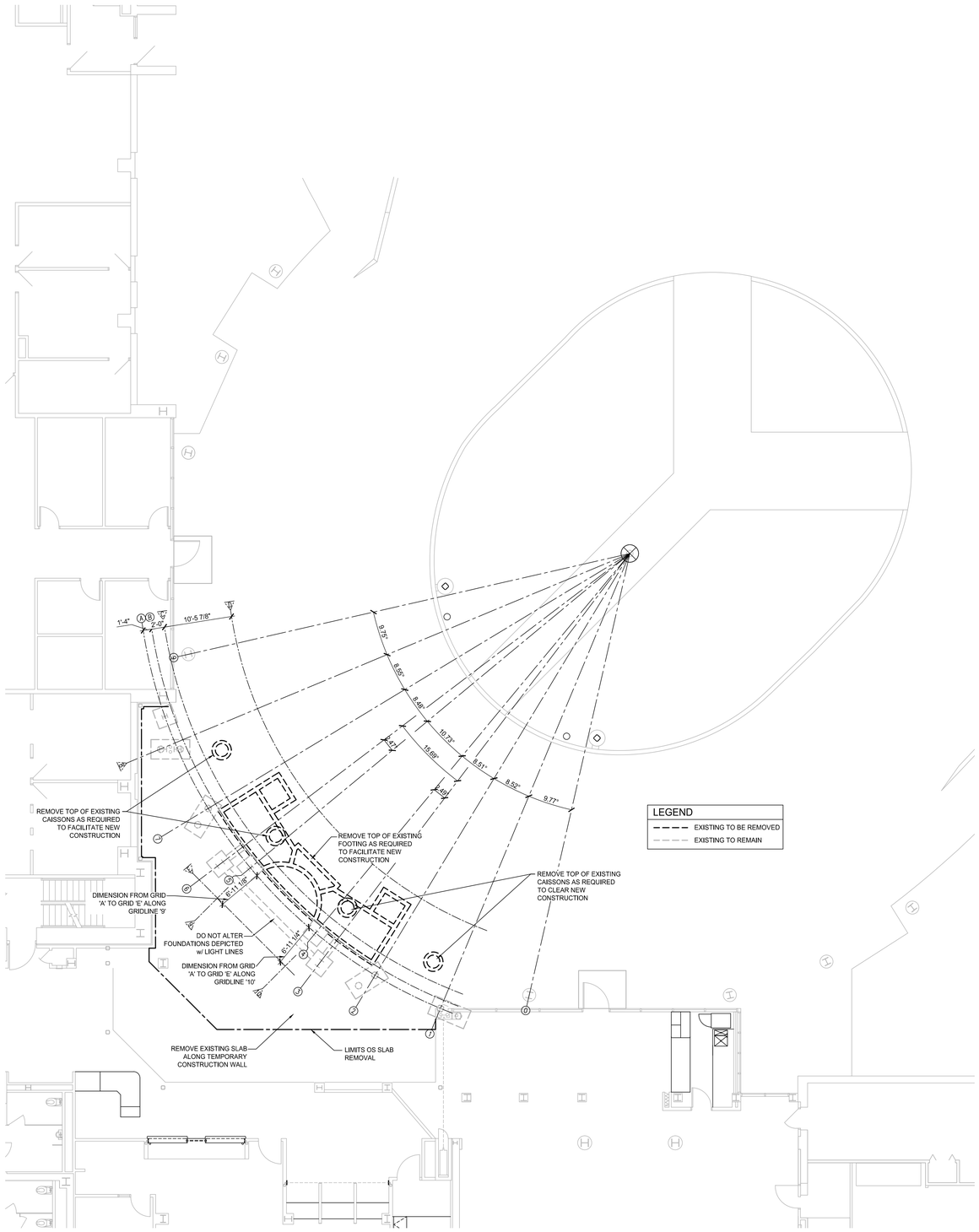
I:\Projects\NE\28\12P02\Dwgs\PLOTS\S0 SHEETS.dwg 5-29-13 02:18:53 PM jzoch

VA FORM 08-6231

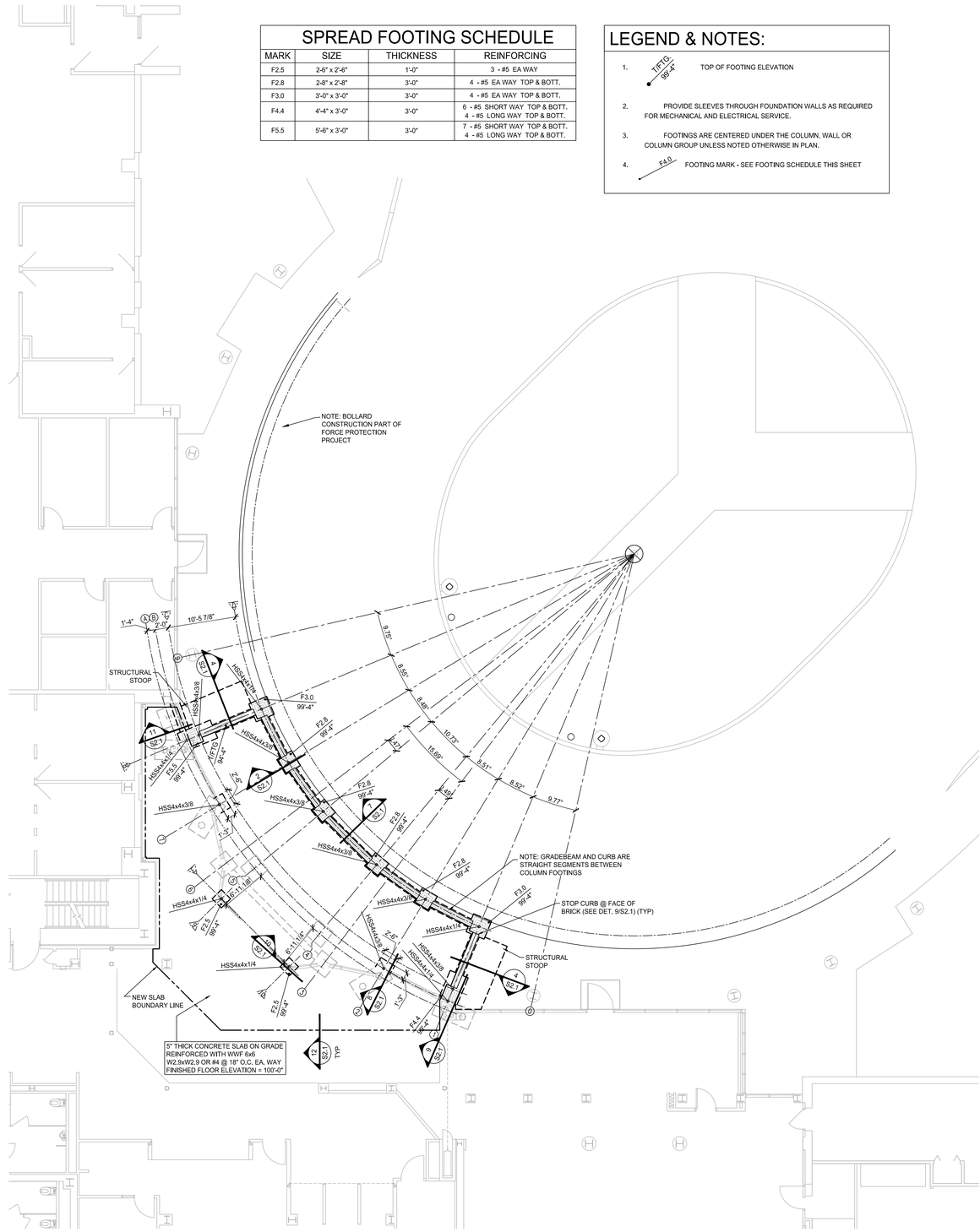
SPREAD FOOTING SCHEDULE			
MARK	SIZE	THICKNESS	REINFORCING
F2.5	2'-6" x 2'-6"	1'-0"	3 - #5 EA WAY
F2.8	2'-8" x 2'-8"	3'-0"	4 - #5 EA WAY TOP & BOTT.
F3.0	3'-0" x 3'-0"	3'-0"	4 - #5 EA WAY TOP & BOTT.
F4.4	4'-4" x 3'-0"	3'-0"	6 - #5 SHORT WAY TOP & BOTT. 4 - #5 LONG WAY TOP & BOTT.
F5.5	5'-6" x 3'-0"	3'-0"	7 - #5 SHORT WAY TOP & BOTT. 4 - #5 LONG WAY TOP & BOTT.

LEGEND & NOTES:

1. TFTG 99'-4" — TOP OF FOOTING ELEVATION
2. PROVIDE SLEEVES THROUGH FOUNDATION WALLS AS REQUIRED FOR MECHANICAL AND ELECTRICAL SERVICE.
3. FOOTINGS ARE CENTERED UNDER THE COLUMN, WALL OR COLUMN GROUP UNLESS NOTED OTHERWISE IN PLAN.
4. F4.0 — FOOTING MARK - SEE FOOTING SCHEDULE THIS SHEET



1 EXISTING GRADE BEAM DEMO PLAN
SCALE: 1/8" = 1'-0"



2 FOUNDATION PLAN
SCALE: 1/8" = 1'-0"

NORTH

Revisions:	Date

JEFFREY A. EHLER E-7289 PROFESSIONAL STRUCTURAL ENGINEER STATE OF NEBRASKA 5-29-13

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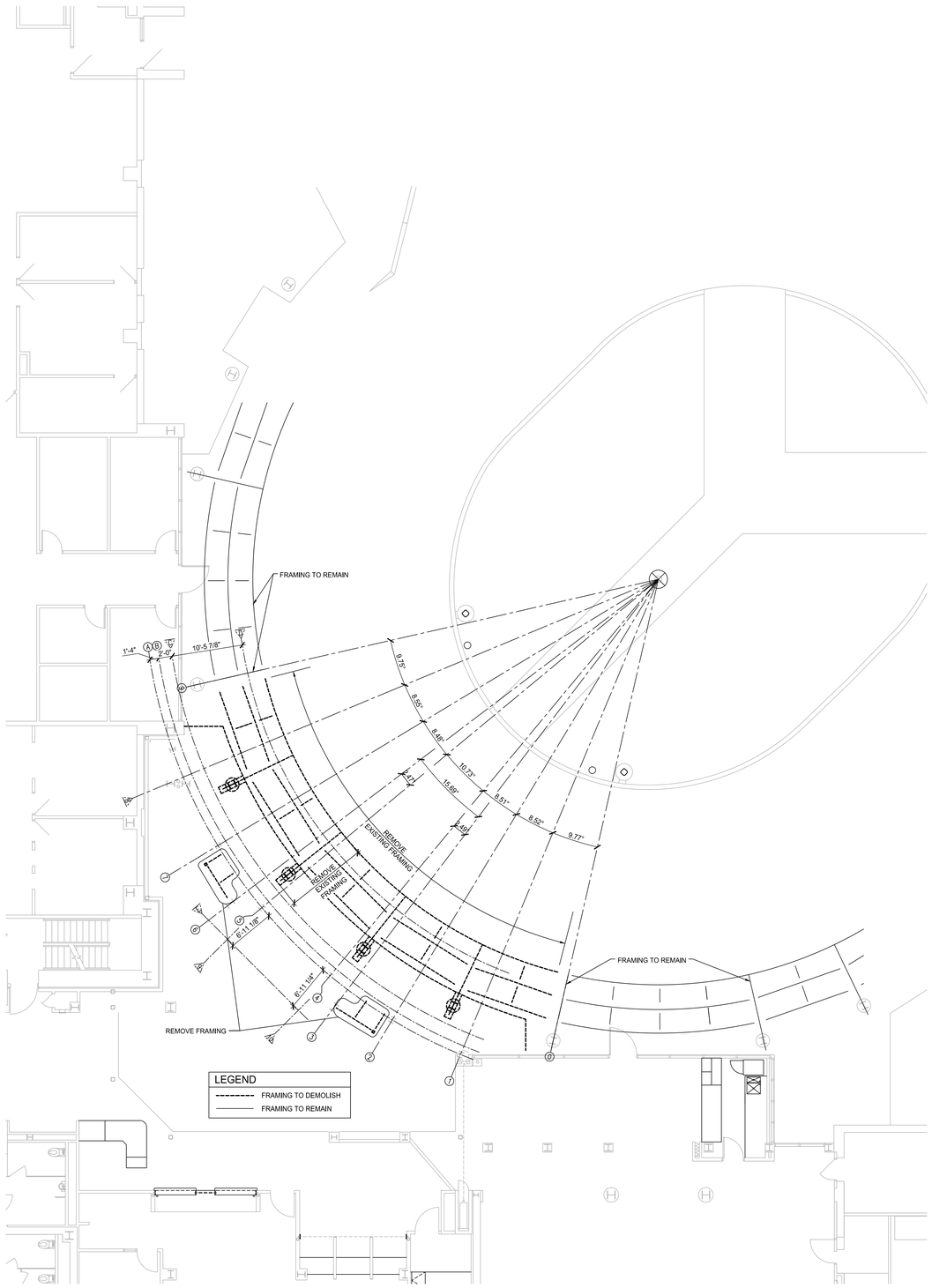
Drawing Title: FOUNDATION DEMOLITION/ NEW FOUNDATION PLANS

CONTRACT DOCUMENTS (CD-3) FINAL SUBMITTAL (100%)

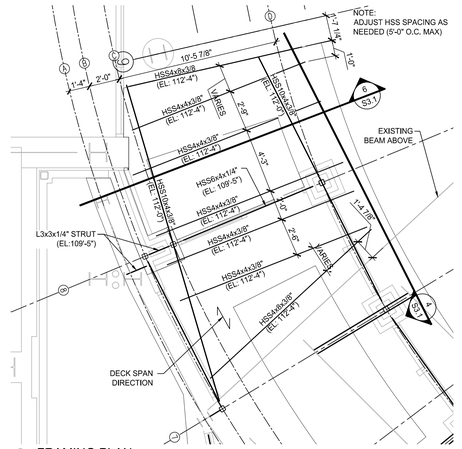
Project Title: CORRECT MAIN ENTRANCE HVAC
Location: VAMC Omaha Nebraska
Date: MAY 10, 2013
Checked: CLH
Drawn:

Project Number: 636-12-823
Building Number: ONE
Drawing Number: S1.1
Dwg. 20 of 36

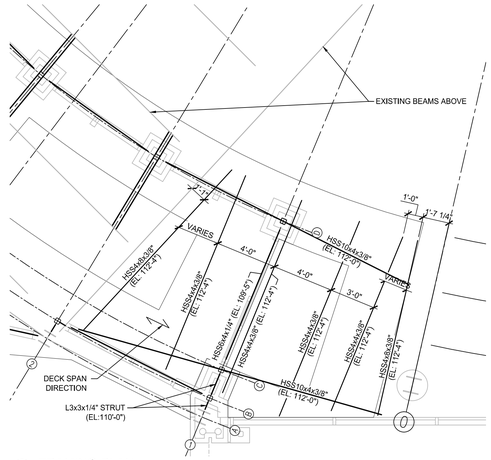
Office of Construction and Facilities Management
Department of Veterans Affairs



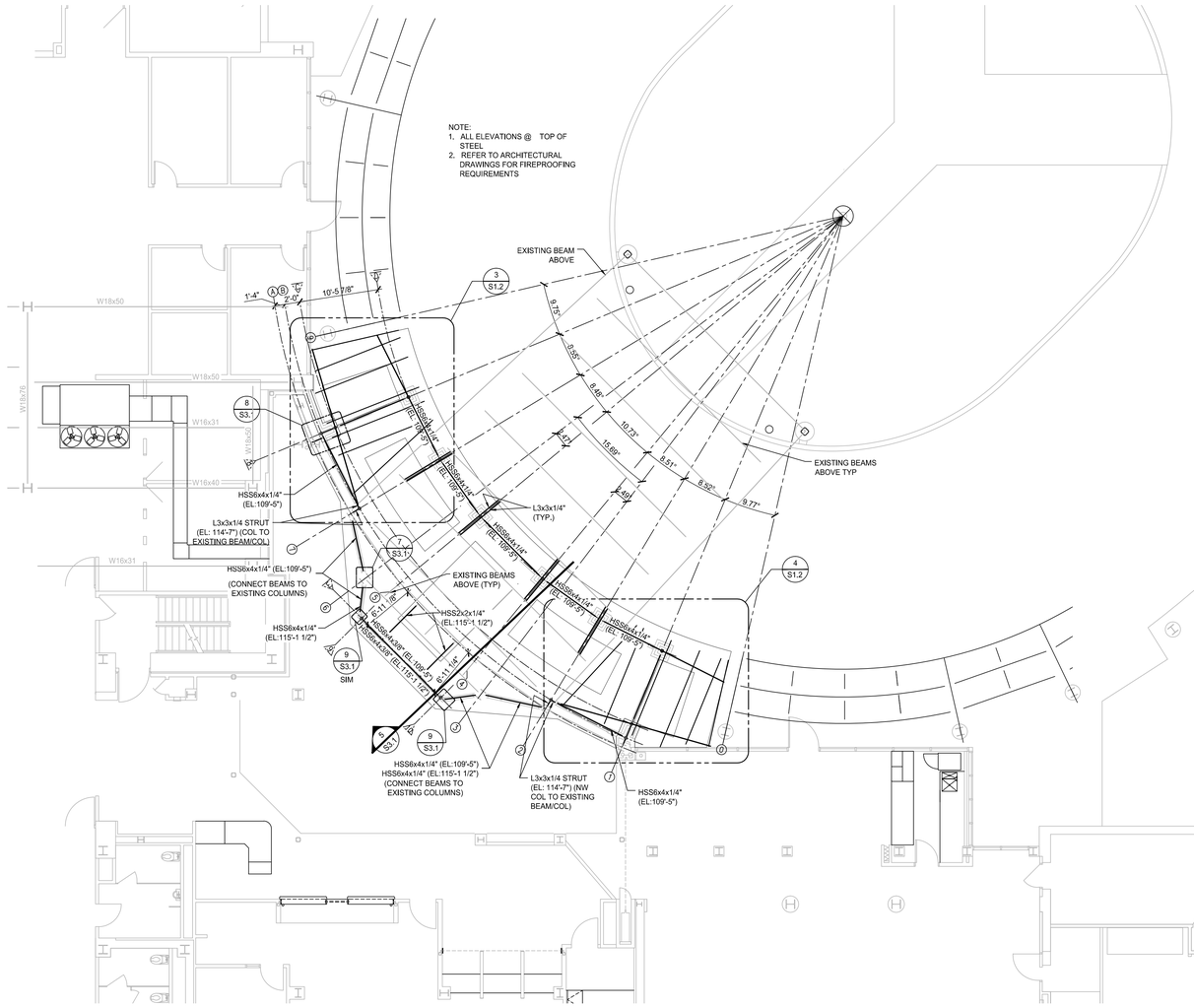
1 EXISTING FRAMING DEMO PLAN
SCALE: 1/8" = 1'-0"



3 FRAMING PLAN
SCALE: 1/4" = 1'-0"



4 FRAMING PLAN
SCALE: 1/4" = 1'-0"



2 FRAMING PLAN
SCALE: 1/8" = 1'-0"

NORTH

Revisions:	Date

JEFFREY A. EHLER E-7289 PROFESSIONAL STRUCTURAL ENGINEER STATE OF NEBRASKA 5-29-13

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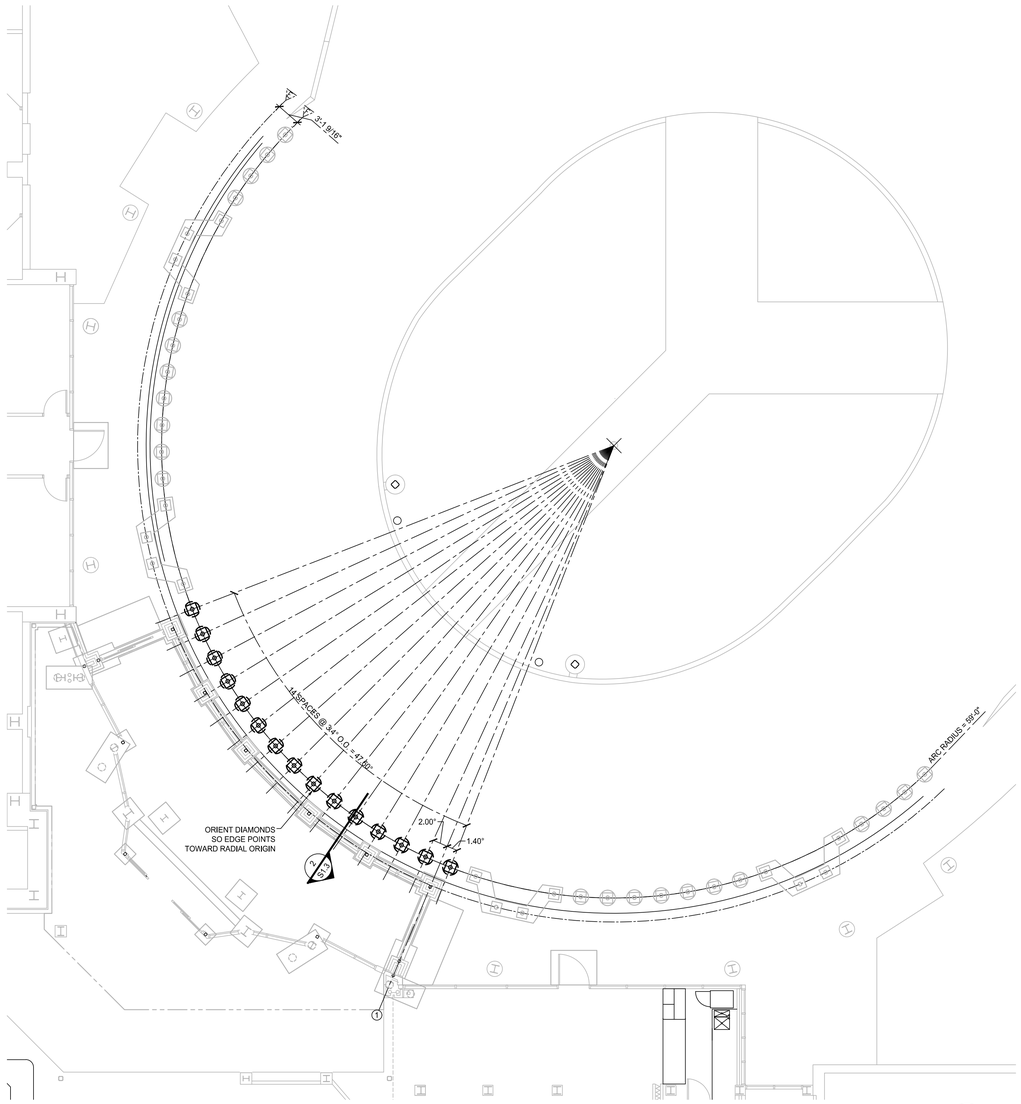
Drawing Title: FRAMING DEMOLITION/ NEW FRAMING PLANS

CONTRACT DOCUMENTS (CD-3) FINAL SUBMITTAL (100%)

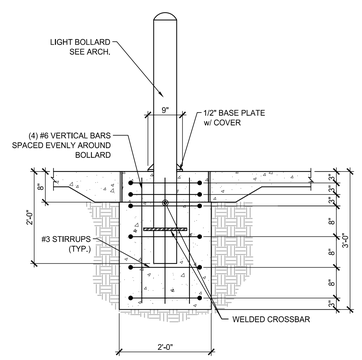
Project Title: CORRECT MAIN ENTRANCE HVAC
Location: VAMC Omaha Nebraska

Project Number: 636-12-823
Building Number: ONE
Drawing Number: S1.2
Date: MAY 10, 2013
Checked: CLH
Drawn:
Dwg. 21 of 36

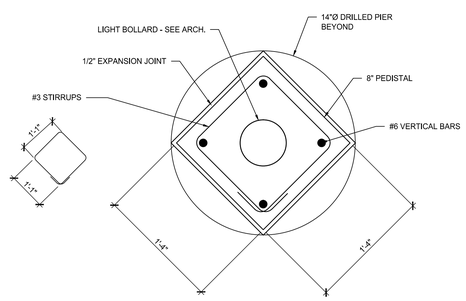
Office of Construction and Facilities Management
Department of Veterans Affairs



1 FOUNDATION PLAN
SCALE: 1/8" = 1'-0"



2 TYPICAL FOUNDATION SECTION
SCALE: 3/4" = 1'-0"



3 TYPICAL FOUNDATION PLAN
SCALE: 1 1/2"" = 1'-0"

Revisions:	Date

JEFFREY A. EHLER E-7289 PROFESSIONAL STRUCTURAL ENGINEER STATE OF NEBRASKA
5-29-13

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Drawing Title: FORCE PROTECTION LAYOUT & DETAILS

CONTRACT DOCUMENTS (CD-3) FINAL SUBMITTAL (100%)

Project Title: CORRECT MAIN ENTRANCE HVAC
Location: VAMC Omaha Nebraska

Project Number: 636-12-823
Building Number: ONE
Drawing Number: S1.3
Dwg. 22 of 36

Date: MAY 10, 2013 | Checked: CLH | Drawn:

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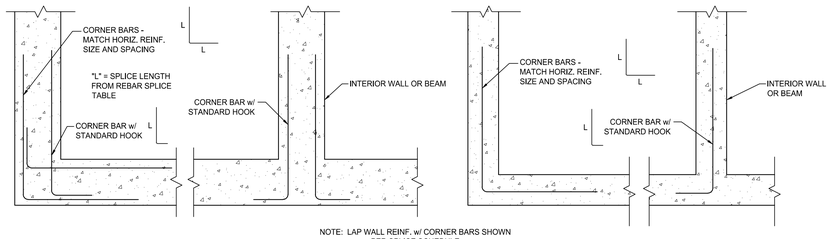
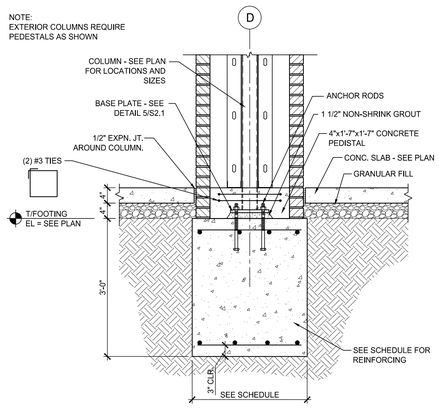
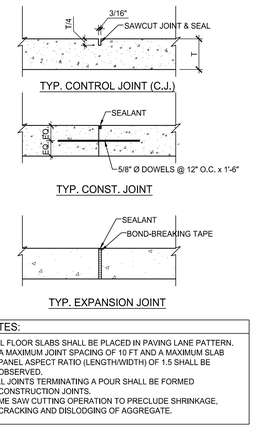


THIS DETAIL APPLICABLE TO
1. ALL PERIMETER FOUNDATION GRADEWALLS
2. ALL CONCRETE WALLS

1 GRADE BEAM CORNER REINFORCEMENT
SCALE: 3/4" = 1'-0"

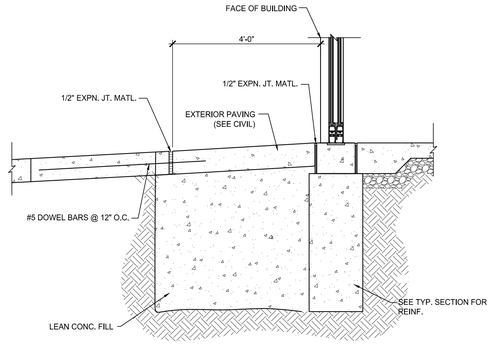


2 TYPICAL SPREAD FOOTING DETAIL
SCALE: 3/4" = 1'-0"

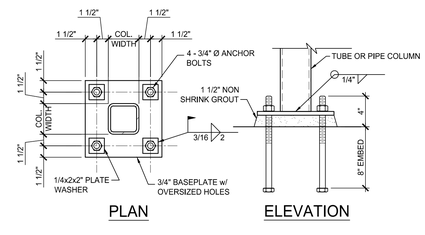


NOTES:
1. ALL FLOOR SLABS SHALL BE PLACED IN PAVING LANE PATTERN. A MAXIMUM JOINT SPACING OF 10 FT AND A MAXIMUM SLAB PANEL ASPECT RATIO (LENGTH/WIDTH) OF 1.5 SHALL BE OBSERVED.
2. ALL JOINTS TERMINATING A POUR SHALL BE FORMED CONSTRUCTION JOINTS.
3. TIME SAW CUTTING OPERATION TO PRECLUDE SHRINKAGE, CRACKING AND DISLODGING OF AGGREGATE.

3 TYPICAL CONCRETE JOINT DETAIL
SCALE: 1" = 1'-0"



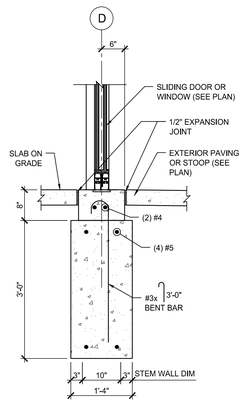
4 TYPICAL STOOP DETAIL
SCALE: 3/4" = 1'-0"



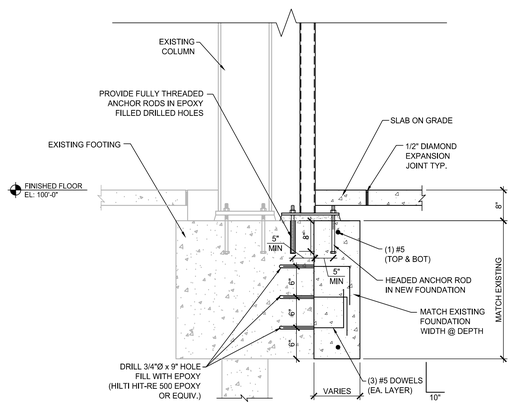
5 BASE PLATE DETAIL
SCALE: 1 1/2" = 1'-0"

REBAR SPLICE SCHEDULE			
BAR SIZE	SPLICE IN CONCRETE		SPLICE IN MASONRY
	HORIZ. BAR	VERT. BAR	
#3	28"	21"	16"
#4	36"	28"	20"
#5	46"	36"	26"
#6	48"	38"	40"
#7	70"	54"	
#8	80"	62"	
#9	90"	70"	

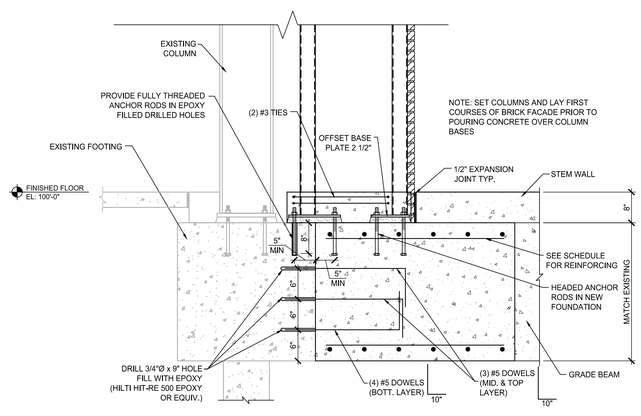
6 SPLICE SCHEDULE
SCALE: NO SCALE



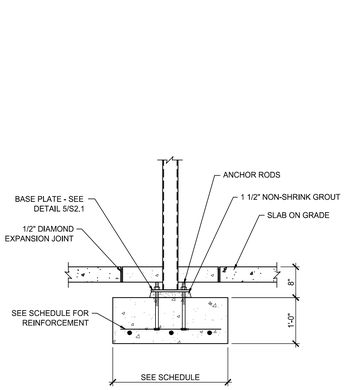
7 GRADE BEAM SECTION
SCALE: 3/4" = 1'-0"



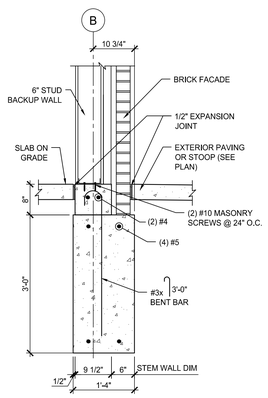
8 EXISTING/NEW FOOTING SECTION
SCALE: 3/4" = 1'-0"



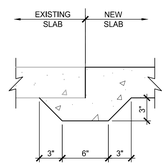
9 EXISTING/NEW FOOTING SECTION
SCALE: 3/4" = 1'-0"



10 FOOTING SECTION
SCALE: 3/4" = 1'-0"



11 FOOTING SECTION
SCALE: 3/4" = 1'-0"



12 EXISTING/NEW SLAB INTERFACE
SCALE: 1-1/2" = 1'-0"

Revisions:	Date

PROFESSIONAL STRUCTURAL ENGINEER — JEFFREY A. EHLER E-7089 — STATE OF NEBRASKA — 5-29-13

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ENGINEERING CONSULTING GROUP

Drawing Title: FOUNDATION SECTIONS AND DETAILS

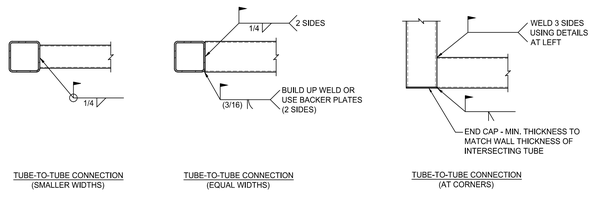
CONTRACT DOCUMENTS (CD-3) FINAL SUBMITTAL (100%)

Project Title: CORRECT MAIN ENTRANCE HVAC
Location: VAMC Omaha Nebraska
Date: MAY 10, 2013 | Checked: CLH | Drawn:

Project Number: 636-12-823
Building Number: ONE
Drawing Number: S2.1
Dwg. 23 of 36

Office of Construction and Facilities Management
Department of Veterans Affairs

VA FORM 08-6231

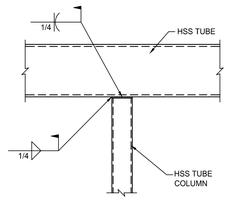


TUBE-TO-TUBE CONNECTION (SMALLER WIDTHS)

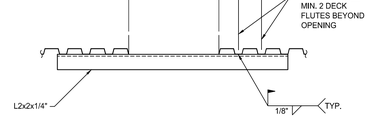
TUBE-TO-TUBE CONNECTION (EQUAL WIDTHS)

TUBE-TO-TUBE CONNECTION (AT CORNERS)

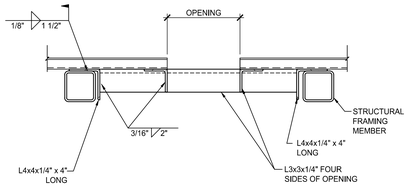
1 TYPICAL HSS WELD CONNECTION
SCALE: 3/4" = 1'-0"



2 TYPICAL BEAM BEARING ON COLUMN CONN.
SCALE: 1" = 1'-0"



DETAIL AT OPNG FROM 6" TO 20"

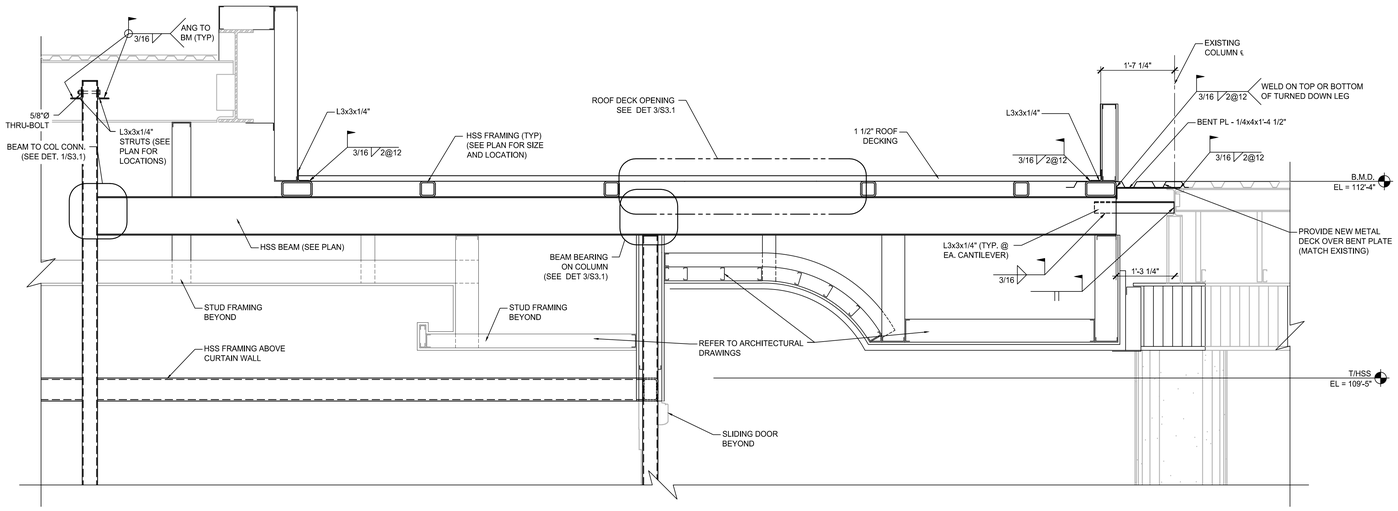


DETAIL AT OPNG LARGER THAN 20"

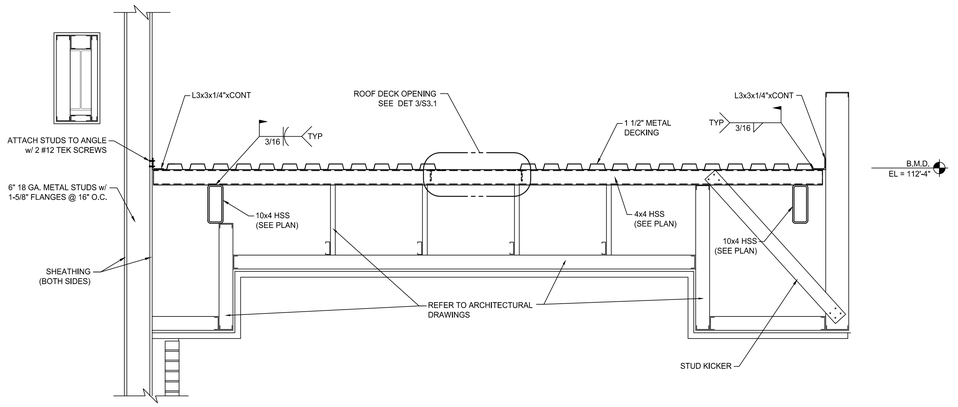
NOTES:

1. OPENING DIMENSION SHALL BE TAKEN TO THE LARGEST DIMENSION IN ANY DIRECTION.
2. FOR OPENING WITH DIMENSION PARALLEL TO STRUCTURAL FRAMING MEMBERS GREATER THAN 4'-0", NOTIFY ENGINEER.

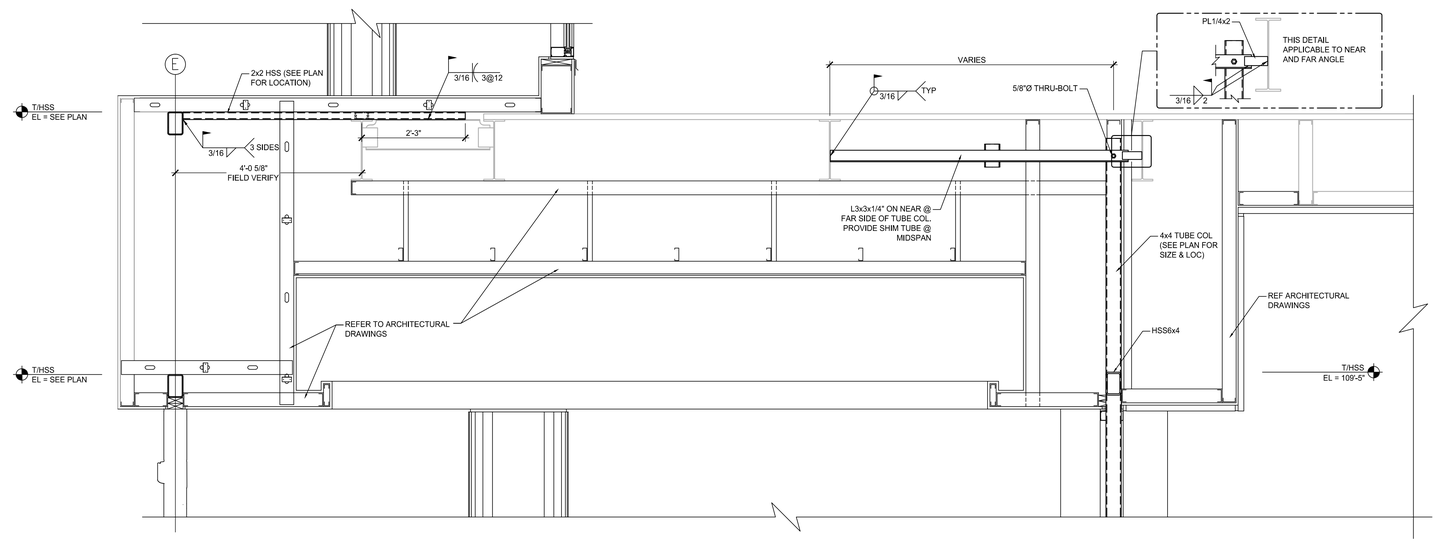
3 ROOF DECK OPENING FRAMING
SCALE: 1 1/2" = 1'-0"



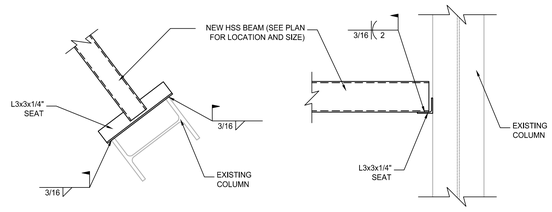
4 BUILDING SECTION
SCALE: 3/4" = 1'-0"



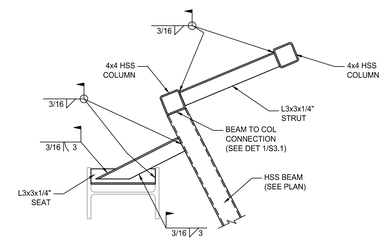
6 BUILDING SECTION
SCALE: 3/4" = 1'-0"



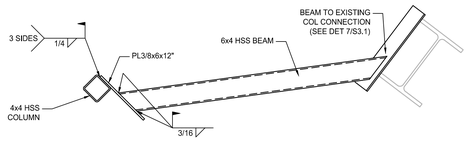
5 BUILDING SECTION
SCALE: 3/4" = 1'-0"



7 HSS TO EXISTING COLUMN CONNECTION
SCALE: 1" = 1'-0"



8 HSS TO EXISTING COLUMN CONNECTION
SCALE: 1" = 1'-0"



9 OFFSET HSS TO COLUMN CONNECTION
SCALE: 1" = 1'-0"

Revisions:	Date

JEFFREY A. EHLER E-7289 — PROFESSIONAL STRUCTURAL ENGINEER — STATE OF NEBRASKA — 5-29-13

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